Multiply 2-digit numbers by 8 using the partitioning method

Maths

Miss Brinkworth

Part A - Use partitioning and area models to solve these questions using the 8 times table

1) 45 x 8 =

2) 83 x 8 =

3)   x 8 = 560

4) 8 x   = 800

Abdul multiples 22 by 8 and gets 1616, is he correct?

If not, what mistake do you think he has made?

Part B -

1) 8 x 4 =

   8 x 40 =

   8 x 400 =

   (Challenge - can you try this with another number? e.g. 12, 120, 1200)

| 1 × 8 = 8 |
| 2 × 8 = 16 |
| 3 × 8 = 24 |
| 4 × 8 = 32 |
| 5 × 8 = 40 |
| 6 × 8 = 48 |
| 7 × 8 = 56 |
| 8 × 8 = 64 |
| 9 × 8 = 72 |
| 10 × 8 = 80 |
| 11 × 8 = 88 |
| 12 × 8 = 96 |

2) Which of these numbers is a multiple of 8?
How do you know?

160	240	4000	85	20	96	100

Part C

There were some octopuses and starfish in a rock pool; octopuses have 8 arms and starfish have 5 arms. Altogether there are 73 arms in the rock pool.

How many octopuses and starfish could there be?
How do you know?
Is there more than one answer?